

**UTILITY  
PATENT APPLICATION  
TRANSMISSION**

Our Docket No.:  
**A-717311/MSS**

Date: **October 15, 2003**

First Named Inventor: **SENZAKI, Yoshihide**

Title: **Two-Step Atomic Layer Deposition of Copper Layers**

Express Mail No.: **EV 182 097 690 US**

**CERTIFICATE OF MAIL (37 CFR 1.8(a))**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MAIL STOP PATENT APPLICATION, FEE, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450 on October 15, 2003.

Signed:

*Laura Lee Mosier*  
Laura Lee Mosier

**ADDRESS TO:**

**Mail Stop Patent Application, FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

2386 U.S. PTO  
10/686898  
10/15/03

**APPLICATION ELEMENTS**

- |   |  |
|---|--|
| <p>1. <input checked="" type="checkbox"/> Fee Calculation Sheet<br/>(Submit an original and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status</p> <p>3. <input checked="" type="checkbox"/> Specification Total Pages: <b>11</b><br/><input type="checkbox"/> Descriptive title of the invention<br/><input type="checkbox"/> Cross References to Related Applications<br/><input type="checkbox"/> Statement Regarding Fed. Sponsored R&amp;D<br/><input type="checkbox"/> Reference to Microfiche Appendix<br/><input checked="" type="checkbox"/> Background of the Invention<br/><input checked="" type="checkbox"/> Brief Summary of the Invention<br/><input checked="" type="checkbox"/> Brief Description of the Drawings<br/><input checked="" type="checkbox"/> Detailed Description<br/><input checked="" type="checkbox"/> Claims<br/><input checked="" type="checkbox"/> Abstract of the Disclosure</p> <p>4. <input checked="" type="checkbox"/> Drawings (35 U.S.C. 113) Total Sheets: <b>1</b></p> <p>5. <input type="checkbox"/> Unexecuted Oath or Declaration Total Pages:<br/>a. <input type="checkbox"/> Newly Executed (original or copy)<br/>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. 1.63(d)) (for continuation/divisional with Box 19 completed)<br/>1. <input type="checkbox"/> <b>DELECTION OF INVENTORS</b><br/>Signed statement attached deleting inventor(s) named in the prior application (37 C.F.R. 1.63(d)(2) and 1.33(b))</p> <p>6. <input type="checkbox"/> Application Data Sheet (37.C.F.R. 1.76)</p> | <p>7.. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (If applicable, all necessary)<br/>a. <input type="checkbox"/> Computer Readable Form (CRF)<br/>b. <input type="checkbox"/> Specification Sequence Listing on:<br/>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or<br/>ii. <input type="checkbox"/> Paper<br/>c. <input type="checkbox"/> Statement verifying identify of above copies</p> |
|---|--|

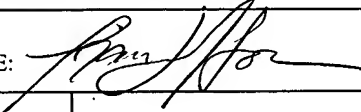
**ACCOMPANYING APPLICATION PARTS**

- |   |
|---|
| <p>9. <input type="checkbox"/> Certification Under 35 U.S.C. 122(b)(2)(B)(i)</p> <p>10. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>11. <input type="checkbox"/> 37 C.F.R. 3.73(b) Submission</p> <p>12. <input type="checkbox"/> Power of Attorney</p> <p>13. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>14. <input type="checkbox"/> Information Disclosure Statement (with Copies of Citations as necessary)</p> <p>15. <input type="checkbox"/> Preliminary Amendment Total Pages:</p> <p>16. <input checked="" type="checkbox"/> Return Receipt Postcard (Should be specifically itemized)</p> <p>17. <input type="checkbox"/> Certified Copy of Priority document(s) (if foreign priority is claimed)</p> <p>18. <input type="checkbox"/> Other</p> |
|---|

19. **If a CONTINUING APPLICATION**, check appropriate box and supply the requisite information:  
☐ Continuation ☐ Division ☐ Continuation-in-part (CIP) of prior Application No.:

For continuation or divisional applications: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference

**CORRESPONDENCE ADDRESS**

ATTY NAME	Tianjun Hou Reg. No. 51,821	SIGNATURE: 	DATE: October 15, 2003
ADDRESS	DORSEY & WHITNEY LLP Four Embarcadero Center, Suite 3400 San Francisco, California 94111-4187		Customer Number: 32940
TELEPHONE	(650) 494-8700		
FAX	(650) 494-8771		

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# APPLICATION FEE TRANSMITTAL SHEET

## Complete if Known

Application No.	To be assigned
Filing Date	October 15, 2003
First Named Inventor	SENZAKI, Yoshihide
Group Art Unit	To be assigned
Examiner Name	To be assigned
Atty. Docket Number and Title:	A-71731/MSS (463035-861) Two-Step Atomic Layer Deposition of Copper

## METHOD OF PAYMENT (Check One)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account No.: 50-2319

Deposit Account Name: DORSEY & WHITNEY LLP

☒ Charge any additional fee required under 37 C.F.R. 1.16 and 1.17

☒ Applicant claims small entity status (see 37 C.F.R. 1.27)

2. ☒ Check Enclosed

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
114	160	214	80	<input type="checkbox"/> Prov. Filing Fee
101	770	201	385	<input checked="" type="checkbox"/> Utility Filing Fee
106	340	206	170	<input type="checkbox"/> Design Filing Fee
108	770	208	385	<input type="checkbox"/> Reissue Filing Fee

Subtotal (1) 770

### 2. EXTRA CLAIM FEES

	Number Claims	Prior	Extra	Fee from Below*	Fee Paid
Total	18	- 20	= 0	x	=
Indep.	2	- 3	= 0	x	=
Multiple Dependent Claims			0	x	=

Subtotal (2)

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	86	202	43	Independent claims in excess of 3
104	290	204	145	Multiple dependent Claim
109	86	209	43	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

## FEE CALCULATION (Continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
105	130	205	65	Surcharge - Late nonprovisional filing fee or oath	
126	180	126	180	Submission of IDS	
581	40	81	40	Recording each patent assignment per property (times number of properties)	
115	110	215	55	Extension for reply within first month	
116	410	216	205	Extension for reply within second month	
117	930	217	465	Extension for reply within third month	
118	1,450	218	725	Extension for reply within fourth month	
128	1,970	280	985	Extension for reply within fifth month	
146	750	246	375	Submission After Final 1:129	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
148	110	248	55	Terminal Disclaimer Fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
142	1,300	242	650	Utility/Reissue Issue Fee (including advance copies)	
143	470	243	235	Design Issue Fee (inc. advance copies)	
179	750	279	375	Request for Continued Examination (RCE)	
195	300	195	300	Publication fee for early, voluntary, or normal publication	
196	300	196	300	Publication fee for re-publication	
140	110	240	55	Petition to Revive - unavoidable	
141	1,300	241	645	Petition to Revive - unintentional	

OTHER FEE (specify)

Subtotal (3)

Total Amount of Payment:

\$ 770

Submitted by:

Name: Tianjun Hou

Reg. No.: 51,821

Telephone: (650) 494-8700

Signature:

Date: October 15, 2003

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